

IN THE CLAIMS:

~~Amend the claims as follows:~~

Claims 1-99 (Canceled).

100. (new) An isolated E2 specific monoclonal antibody, said antibody specifically binding to at least one region within a domain spanning amino acids 384-650 or 655-809 of the hepatitis C virus polyprotein.

101. (new) The monoclonal antibody according to claim 100 or 113 which has been produced from a mammal immunized with a composition comprising purified recombinant HCV single or specific oligomeric recombinant E2 envelope proteins.

102. (new) The monoclonal antibody according to claim 101 wherein said recombinant HCV E2 envelope proteins are produced by a recombinant mammalian cell.

103. (new) The monoclonal antibody of claim 102 wherein said mammalian cell is infected with recombinant vaccinia virus carrying DNA for expressing said HCV E2 envelope proteins.

104 (new) The monoclonal antibody according to claim 101 wherein said recombinant HCV E2 envelope proteins are produced by a recombinant yeast cell.

105. (new) The monoclonal antibody according to claim 101 wherein said recombinant HCV E2 envelope proteins are the expression product of at least one of the following recombinant vectors:

a) a recombinant vector comprising a vector sequence, a prokaryotic, eukaryotic or viral promoter sequence followed by a nucleotide sequence allowing the expression of said single or specific oligomeric E2 protein;

b) a recombinant vector according to (a), with said nucleotide sequence being characterized further in that it encodes a single HCV E2 protein starting in the region between amino acid positions 290 and 406 and ending in the region between amino acid positions 600 and 820;

B3 c) a recombinant vector according to (b), with said nucleotide sequence being characterized further in that it ends at any of amino acid positions 623, 650, 661, 673, 710, 715, 720, 746 or 809;

d) a recombinant vector according to any one of (b)-(c), said nucleotide sequence further comprising a 5'-terminal ATG codon and a 3'-terminal stop codon; and

e) a recombinant vector according to any one of (b)-(d) further comprising a factor Xa cleavage site and/or 3 to 10 histidine codons positioned 3'-terminally to said nucleotide sequence.

106. (new) Kit for determining the presence of HCV antigens present in a biological sample, comprising:

at least one E2 specific monoclonal antibody according to claim 100 or 113,

a buffer or components necessary for producing the buffer enabling binding reaction between these antibodies and the HCV antigens present in said biological sample,

a means for detecting the immune complexes formed in the preceding binding reaction.

107.(new) An isolated antibody of claim 101 which is an E2 specific monoclonal antibody.

108. (new) The isolated protein of claim 101 wherein said E2 protein is at least 90% pure.

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109. (new) The isolated protein of claim 101 wherein said E2 protein is at least 95% pure.

110. (new) The isolated protein of claim 101 wherein said E2 protein is at least 97% pure.

111. (new) The isolated antibody of claim 101 wherein said E2 protein is at least 97% pure.

112. (new) The isolated antibody of claim 101 wherein said E2 protein is at least 99% pure.

113. (new) An isolated monoclonal antibody which competes for binding to an E2 protein with a E2 specific monoclonal antibody according to claim 100.

✓ 114. (new) The isolated E2 specific monoclonal antibody of claim 100, said antibody being an antibody secreted by the hybridoma cell line deposited December 3, 1998 with the European Collection of Cell Cultures and assigned the accession number 98031215.

115. (new) The isolated E2 specific monoclonal antibody of claim 100, wherein said antibody specifically binds to a region in the E2 domain spanning an amino acid segment selected from the group consisting of 397-416 (SEQ ID NO:72), 409-428 (SEQ ID NO:73), 427-446 (SEQ ID NO: 74), 439-458 (SEQ ID NO:75), 451-470 (SEQ ID NO:76), 463-482 (SEQ ID NO:77), 475-494 (SEQ ID NO:78), 487-506 (SEQ ID NO:79), 499-518 (SEQ ID NO:80), 511-530 (SEQ ID NO:81), 523-542 (SEQ ID NO:82), 547-566 (SEQ ID NO:83), 559-578 (SEQ ID NO: 84), 571-590 (SEQ ID NO:85), 583-602 (SEQ ID NO:86), 595-614 (SEQ ID NO:87), 607-626 (SEQ ID NO:88), 619-638 (SEQ ID NO:89), 631-650 (SEQ ID NO:90) and 655-674 (SEQ ID NO:92).

116. (new) The isolated E2 specific monoclonal antibody of claim 100 wherein said antibody specifically binds to an epitope selected from the group consisting of epitopes A, E, C, F, G, H and I of the E2 domain of the hepatitis C virus polypeptide.

117. (new) The monoclonal antibody according to claim 100 or 113 which has been produced from a mammal immunized with a composition comprising at least one purified recombinant HCV single or specific oligomeric recombinant E2 envelope protein.

118. (new) A kit for determining the presence of HCV antigens present in a sample, said kit comprising at least one E2 specific monoclonal antibody according to claim 100 or 113.
